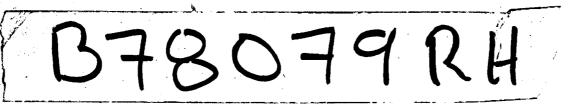
Work Ord December-28-1	er ID 7807 1 3:25:22 PM	79		*780	79*					,		Page
Item ID: Revision ID: Item Name:	D350-636-012 Skidtube RH			Accept	*N900	04 0	100)*	Setup	Start Stop		S1* S2*
Start Date: Required Date: Reference:		Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item II Customer:	D:						
Approvals:	Process Plan: QC:	HCJ	Date: 11112 28	Tooling: _ SPC (Y/N):		te:				Start Stop		R1* R2*
Sequence ID/ Work Center II		peration escription	A.	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp
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D2750	$\cdot \mathbf{F}$											
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*100 *100 DC	Do	OCUMENT CONTRÔI Memo	ue file and type labels per l	0.00	G006 \ (7/a/a			H)-(~,	(N	NLT	12-2



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DATE	STEP	PRO	OCEDURE CH	ANGE	ı	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	Resolution:		Fault Cat	egory:	NCR:	Yes N	io DQ	A:	Date:	
			Dispositi	on:	QA: N	VC Clo	sed:		Date: _	
NCR:			WORK ORE	DER NON-CONFORM	IANCE (NCR)		•		
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Sec Action Description Chief Eng	ction B	Sign & Date	Verific Secti	cation on C	Approval Chief Eng	Approval QC Inspector

10-Open up holes of Detail A to 0.297" (total of 2 holes per side)

0.297".

holes for ground handling and detail L to 0.500" (8 holes per side)

location holes to 0.500" (total of 4 holes per side) as per dwg D2750. Open up

9-Drill pilot holes for wearplates as per Dwg D2750 using DT8108 open to

W/O:			WO	RK ORDER CHANGI	ES		-		1 A
DATE	STEP	PRO	CEDURE CHAI	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cateo	jory:	NCR: Yes	No DQ	\:	Date:	
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NCR:		V	VORK ORDE	R NON-CONFORMA	NCE (NCF	R)			
	E STEP Description of NC		Corrective Action Section			ation	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign and Date	& Section		Chief Eng	QC Inspector
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Work Ord December-28-1				*780	79*							Page 3
Item ID: Revision ID: Item Name:	D350-636-0 Skidtube RH	12		Accept	*N900	040	100) *	Setup	Start Stop		S1* S2*
Start Date: Required Date: Reference:	28/12/2011 12/01/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item l Customer:	D:						
Approvals:	Process Pla	ın:	Date:	_ Tooling:	D:	ate:			Run	Start	*N	R1*
				SPC (Y/N):	, D:	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	D	from bendin A/R Alum	744 Cap as per Dwg D27: g as per QSI 004 inum Rod batch:///)	Set Up/ Run Hours 50 and QSI 004.Fill groove 197/2 Br	Tool ID es in bend left E 12-01-16 12-01-	Tool#	Plan Code	Accept Qty	t Rej Qty		Reject Number	Insp. Stamp
*120 *120* QC Quality Control		QC10- Inspect visual per Memo	QS1004- ground welds	0.00 0.00 Sizlo	·\ıs							
130 *130* QC Quality Control		QC5- Inspect part comple	eteness to step on W/O	0.00	rlulig							

Quality Control

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DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No	•	PAR #:	Fault Cat	egory:	_ NCR: Yes 1	io DQA:	Date: _				
	R	esolution:	Dispositi	on:	_ QA: N/C Clo	sed:	Date: _				
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DATE	CTED	Description of NC		Corrective Action Section		Verification	Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector			
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Work Ord	er ID 78079	9		*780	179*							Page	4
Item ID: Revision ID: Item Name:	D350-636-012 Skidtube RH			Accept	*N900	040	100)*	Setup	Start Stop	*N *N	S1* S2*	
Start Date: Required Date: Reference:		tart Qty: 1.00 eq'd Qty: 1.00	*1* *1*		Cust Item II Customer:	D :							
Approvals:	Process Plan: _ QC:		Date:	Tooling: SPC (Y/N):	Da				Run	Start Stop		R1* R2*	
Sequence ID/ Work Center II 140 *140* HandFinish Hand Finishing	D De	peration escription emical Conversion Coat	per QSI005 4.1	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accep Qty	t Rej Qty	y N	Reject Number	Insp. Stamp	I-D0
150 *150* QC	QC	C3- Inspect Part Finish Memo		0.00				/	/ 	9	Bl	512-0F	-20

Memo

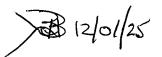
Quality Control

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		Description of NO	Corrective Ac	Corrective Action Section		Verific	ation	Approval	Approval
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Work Ord December-28-1		079 4		*780	79*			_				Page
Item ID: Revision ID:	D350-636-0	12		Accept	*N900	040	100)*	Setup	Start Stop	*N	S1*
Item Name: Start Date: Required Date: Reference:	28/12/2011 12/01/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:				зюр	*N	S2*
Approvals:	Process Pla	ın:	Date:	Tooling:	D:	ate:		j	Run	Start Stop	*N	R1*
	QC:		Date:	_ SPC (Y/N):	Da	ate:				Stop	*N	R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
*160 *160* Skidtubes Skidtubes				0.00 0.00 and handling to 0.625" (tot	al of 8 holes per							
		as per dwg £ 3-Open float 4-Chamfer h	oles of Detail K to 0.750' 02750. holes to .500" (4 per Sid	(total of 4 holes per side) e) d handling and float holes	per dwg D2750		X E	3 12/	01/2	Ö		
			I blow out all chips from									
	,	7-Bond web A/R Sikaf 8- Weld spac (welding inst A/R Alumin	D2739 in place as per QS lex-291 batch: // 9 exp. dat	51 015 15 08 10 12 168/13 11 12 712 2	2 (2/01/2 50 & QS1004 Bb 12-07-2	·						

10-Grind welds flush as per Dwg D2750

11-Spot face ground handling holes section (total of 4 places per side) as per



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DATE	STEP	PRO	OCEDURE CH			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate	egory:	NCR:	Yes I	lo DQ	A:	Date:	
	Re	solution:	Dispositi	on:	QA: I	VC Clo	sed:		Date: _	
NCR:		•	WORK ORE	DER NON-CONFORM	ANCE	(NCR))			
NCR:		Description of NC			tion B		Verific	ation	Approval	Approval
DATE	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti	ation App	Chief Eng	QC Inspector
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Work Order ID 78079 December-28-11 3:25:22 PM				*780	79*							Page	6
Item ID: Revision ID:	D350-636-0	12		Accept	*N900	040	100)*	Setup	Start Stop		S1*	
Item Name:	Skidtube RH									Stop	*N	S2*	
Start Date:	28/12/2011	Start Qty: 1.00	*1*		Cust Item I	D:							
Required Date: Reference:	: 12/01/2012	Req'd Qty: 1.00	*1*		Customer:								
Approvals:	Process Pla	ın:	Date:	Tooling:	Da	nte:	·		Run	Start	*N	R1*	
	QC:		Date:	_ SPC (Y/N):	Da	ate:				Stop	*N	R2*	
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp	_
		dwg D2750 12-Deburr h	oles	A	B 12/01/	2 <i>\$</i>							
170		QC10- Inspect visual per	QSI004- ground welds	0.00	la c								
170 QC Quality Control		Мето		0.00	or 125								
180		QC5- Inspect part comple	eteness to step on W/O	0.00									
180		Memo		0.00	7/11/25								

812/11/25

Memo

Quality Control

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DATE	STEP	Description of NC	Corrective Action Sect			0: 0		ation		Approval
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Work Ord December-28-1				*780	179*				Page 7
Item ID: Revision ID: Item Name:	D350-636-0 Skidtube RH	12		Accept	*N900040	1100*	Setup	Start Stop	*NS1* *NS2*
Start Date:	28/12/2011	Start Qty: 1.00	*1*	•	Cust Item ID:				14(1)
Required Date: Reference:	: 12/01/2012	Req'd Qty: 1.00	*1*	•	Customer:				
Approvals:	Process Pla	n:	Date:	Tooling:	Date:		Run	Start Stop	*NR1*
	QC:		Date:	SPC (Y/N):	Date:				*NR2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID Tool #	Flan Acce Code Qty	pt Re Qt		Reject Insp. Number Stamp
190		Pressure Wash per QSI00	05 4.3	0.00					
100 HandFinish Hand Finishing		Memo Re-alodine t	ube as per QSI 005 se	0.00 ction 4.1.2.1 do not acid etch.		0	' /	AN A	CF 12-1-27
200		White Gloss(Ref:4.3.5.1)	per QSI005 4.3-Alun	n 0.00		10	_		
200 Powder Coating	.16	Memo START TIM OVEN TEM FINISH TIM	ie: 10 -0 Perature:	320° F		1Xy	X-1.	M- j	12/01/27
W C	1400	QC3- Inspect Part Finish	10-3	0.00		,	0		. 14 1 1
210		Memo		0.00		_ (v	<u>211</u> _	4	M 1162/61

Memo

✓Inspect for foreign object per QSI 024

Quality Control

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W/O:			M	ORK ORDER CHANGI	ES	- · · · · · · · · · · · · · · · · · · ·			·
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DATE	STEP	Description of NC		Corrective Action Section		Ve	rification	Approval	Approval
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December-28-11 3:25:22 PM D350-636-012 Accept Item ID: *N900040100* Setup Start **Revision ID:** Stop Skidtube RH **Item Name: Start Date:** 28/12/2011 Start Qty: 1.00 **Cust Item ID: Required Date:** 12/01/2012 Req'd Qty: 1.00 **Customer:** Reference: Start Run **Approvals:** Process Plan: Date: **Tooling:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Tool # Plan Accept Reject Reject Set Up/ Insp. **Work Center ID Description** Code Oty Otv Number Stamp **Run Hours** 230 0.00 _ H 12/02/01 HandFinishing *230* HandFinish 0.00 Memo Hand Finishing Install inserts as per dwg D2750 2-Inspect for Foreign Objects 3-Spray inside of tube with "LPS-3" batch: U/A 4-Install blade fitting D3488-042, wearshoes and ground handling hardware as per dwg D2750 SIKA FLEX 241 BATCH: 119508 EXP DATE: 12 09

6-Coat all exposed fasteners with "LPS Procyon" batch: 1/1/455

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Work Ord December-28-1				*780	79*	_ <u></u>						Page	9
Item ID: Revision ID:	D350-636-0	12		Accept	*N900	040	100)*	Setup		*N	S1*	
Item Name:	Skidtube RH									Stop	*N	S2*	
Start Date:	28/12/2011	Start Qty: 1.00	*1*		Cust Item 1	ID:							
Required Date:	: 12/01/2012	Req'd Qty: 1.00	*1*		Customer:								
Reference:										. .			
Approvals:	Process Pla	an:	Date:	Tooling:	D	ate:			Run	Start	*N	R1*	
	QC:		Date:	SPC (Y/N):	D	ate:				Stop	*N	R2*	
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Reje Qty		Reject Number	Insp. Stamp	
240		QC5- Inspect part compl	leteness to step on W/O	0.00									
240 QC Quality Control		Memo		0.00	rls								
250		Pick Kit		0.00							_		
250 Packaging Packaging		Мето		0.00					42	<u>/</u>	<u>~</u>	<u> </u>	
260		QC4- 100% Inspect kits	for completeness	0.00	. 1								
260		Memo		0.00	lorla			(H) —				

Quality Control

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DATE	STEP	PR	OCEDURE CHA		В	У	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
										
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			WORK ORDI	ER NON-CONFORM	ANCE (N	(CR)				
DATE	STEP	Description of NC Section A	initial Chief Eng	Corrective Action Sect Action Description Chief Eng		ign & Date	Verification Section C		Approval Chief Eng	Approval QC Inspector

Work Order ID 78079 *78079* December-28-11 3:25:22 PM Accept *N900040100* D350-636-012 Item ID: Setup Start **Revision ID:** Item Name: Skidtube RH 28/12/2011 Start Qty: 1.00 **Start Date:** Cust Item ID: **Required Date:** 12/01/2012 **Req'd Qty:** 1.00 **Customer:** Reference: Run Start Date: **Tooling:** Process Plan: Date: **Approvals:** Stop SPC (Y/N): Date: Date: Tool ID Reject Operation Tool # Plan Accept Reject Sequence ID/ Set Up/ Qty Number Code Qty **Work Center ID Description Run Hours** 0.00 270 Packaging *970* 0.00 Packaging Memo Package as per PPP D350-636-012 Packaging

280

QC21- Final Inspection - Work Order Release

0.00

280

Quality Control

Memo

0.00

Insp.

Stamp

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W/O:			WC	RK ORDER CHANGE	S				4.
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:	
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		Description of NC		Corrective Action Section		Verifi	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign of Date	& Secti	ion C	Chief Eng	QC Inspector
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Page 1

Work Order ID: 78079

78079

EC

Parent Item:

D350-636-012

Parent Item Name: Skidtube RH

D350-636-012

Start Date: 28/12/2011

Required Date: 12/01/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:102.09.25Rearranged procedure stepsKJ

IPP Rev:J 06-03-29 As per Rev D As per dsi9343 IPP Rev:K 06-07.13

IPP Rev:L 07-07-28 Added SS Wearplates(Rev E) JLM Verified By:EC

IPP Rev:M 08-04-22 update steps 4,13 DD verified by:EC

Manufactured

No

IPP Rev:N 08-09-23 revF as per dwg DD verified by:ec IPP Rev:O

10.06.22 revise seq110 DD verf:EC

IPP Rev:P 10.10.01 as

per IIN revH DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2600-3-BENT		Manufactured	No			110	Each	26.0000	1	1		,	
D2600-3-	RFNT								**				

Extrusion Bent

Location	Loc Qty	Loc Code				
LG	26					
66875	7					
73253	1					
75021	1					
75022	1					
75023	1				77 /	177 1:0
77623	15			(2)	$\sim \omega$	12-1-9
	110 Each	34.0000	1			
		*	*		2	C.2 0/1/2

D2744

D2744

Location Loc Qty Loc Code LG002 34 62715 1 70881 12

21

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BG12-01-16

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Work Order ID: 78079		*7	0070*					-	
			80 7 9*						
Parent Item: D350-636-012		*[)350-636-0)12*					
Parent Item Name: Skidtube RH						S	tart Date: 2	28/12/2011	Required Date: 12/01/2012
*						:	Start Qty: 1	1.00	Required Qty: 1.00
D2739	Manufactured	No		160	Each	4.0000	1	1	
	Manadatata						**	101	12/01/20
D2739 3501Beam			78420	2			G	1	
330 i Beam			Location		oc Qty	Loc Code			
			LG	<u></u>	4	<u> Doc couc</u>			
			72155		1				_
			76987		3				
D2743	Manufactured	No		160	Each	169.0000	8	8	
D2743							**		R1 12 01 27
Crossbolt Spacer									BED-01-23
			Location	<u>L</u> c	oc Qty	Loc Code			
			LG001		169				<u> </u>
			67766		4				allo core
			68251 73403		3 64				_
			73403 74445		92			8	
			76141		6				_
D3490-3	Manufactured	No		160	Each	22.0000	4	4	
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						**		B-77567 x4
D3490-3									0-12/2
Cross Bolt Spacer			Location	L	e Oty	Loc Code			B-11067 X4
			LG001	<u> </u>	22	<u>Lot cout</u>			<u> </u>
			74877		22				
D3490-1	Manufactured	No	,,	160	Each	70.0000	4	4	
	Wandiductured						**	•	20
D3490-1 Cross Bolt Spacer									BE12-01-23
			Location	Lo	e Qty	Loc Code			
			LG001		70				_
			62450	•	2				
			67773		4				
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Shop Packet Print

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DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	D	ate	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cat	egory:	_ NCR: Ye	s No	DQA		_ Date: _	
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DATE	STEP	Description of NC		Corrective Action Section		,	Verifica	ation	Approval	Approval
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Picklist Print December-28-11 3:25:27 PM *78079* Work Order ID: 78079 D350-636-012 *D350-636-012* Parent Item: Skidtube RH Start Date: 28/12/2011 **Required Date: 12/01/2012** Parent Item Name: Start Qty: 1.00 Required Qty: 1.00 D3631-1 230 351.0000 Manufactured No Each 8 ** *D3631-1* 12.07/6-1 Location Loc Qty Loc Code ST072 351 2 68062 349 75548 D3791-1 Manufactured 230 21.0000 No Each *D3791-1* ** Wearplate Loc Oty Location Loc Code FP002 21 2 62239 74598 3

75041

Manufactured

No

D3793-3 Wearshoe

D3793-3

Loc Oty Loc Code Location FP001 14 74528 2 75043 12

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Each

14.0000

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Page 3

W/O:			W	ORK ORDER CHANG	ES					7
DATE	STEP	PRO	OCEDURE CH	ANGE	1	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No:		PAR #:	Fault Ca	tegory:	_ NCR:	Yes 1	lo DQ	\ :	Date: _	
	R	esolution:	Disposit	ion:	_ QA: N	VC Clo	sed:		Date: _	
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DATE	Description of NC Corrective Action Section						Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section		Chief Eng	QC Inspector

Picklist Print December-28-11 3:25:27 PM									Page 4
Work Order ID: 78079 Parent Item: D350-636-012			8079* 350-636-0	12*					
Parent Item Name: Skidtube RH							tart Date: 2 Start Qty: 1		Required Date: 12/01/2012 Required Qty: 1.00
*MS21043-6 *MS21043-6*	Purchased	No		230	Each	377.0000	4 **	4 	12/02/0(
	·		Location FG 103693 ST301 112314 117887 118384	<u>l.</u>	20 20 357 147 10 200	<u>Loc Code</u>		хч	-
D3794-1 *D3794-1* Gasket	Manufactured	No		230	Each	31.0000	1 **	1	12/02/01
			<u>Location</u> FP002 74594 <u>75042</u>	<u>Lo</u>	31 3 28	Loc Code			- -
*NAS1611-010 *NAS1611-010* o-RING	Purchased	No	\	230	Each	87.0000	8 **	8	21 (29) 11 12/02/01
			Location FP001 110915 117460 118077 118612 119438 119623	<u>L</u> .c	87 14 8 1 3 47	Loc Code			- - - - -

	. Johani			•						•
W/O:			WC	RK ORDER CHANG	GES				1,	*
DATE	STEP	PR	OCEDURE CHA	NGE	E	Зу	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:	Fault Cated	aorv:	NCR:	Yes N	io DQ	 A:	Date:	
			Disposition: Q							
NCR:			WORK ORDI	R NON-CONFORM	ANCE (NCR)	l			
DATE	STEP	Description of NC		tion B		Verific	ation	Approval	Approval	
DAIE	SIEF	Section A	initial Chief Eng	Action Description Chief Eng		Sign & Date		on C	Chief Eng	QC Inspector
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Picklist Print December-28-11 3:25:27 PM										Page 5
Work Order ID: 78079 Parent Item: D350-636-012		*780°	79* 60-636-0	ገ12*						
Parent Item Name: Skidtube RH							tart Date: Start Qty:	28/12/2011 1.00	-	d Date: 12/01/2012
D2741 *D2741* Blade, 350 Skidtube	Manufactured	No		250	Each	18.0000	1 **	7/8	es6 c	
		<u>Loo</u> ST ST ²	166	<u>L</u> (-10 28	Loc Code			_ _	
NAS1515H3L *NAS1515H3I * WASHER	Purchased	No	71856	230	18 Each	183.0000	4 **	* 1 4 !!	12/02	[61
		Loc FG ST2	102472	<u>L</u> .c	40 40 143 3 40 100	Loc Code				
*NAS1611-013 *NAS1611-013* o-RING	Purchased	No		230	Each	96.0000	8 **	8 <u>*/\17012</u>	1 (x 8)	Milozlo
		FP0	116582 117291 117887	<u>Lc</u>	96 5 2 53 36	Loc Code			- - -	

W/O:			W	ORK ORDER CHANGE	ES				~ <u>}</u>
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	_ Date: _	
Resolution:			Dispositio	n:	QA: N/C C	losed:		Date: _	
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DATE	STEP	Description of NC	Institut	Corrective Action Section B Initial Action Description			cation	Approval A	Approval
	J	Section A	Chief Eng	Chief Eng	Sign Date		on C	Chief Eng	QC Inspector

Picklist Print December-28-11 3:25:27 PM									Page 6
Work Order ID: 78079 Parent Item: D350-636-012 Parent Item Name: Skidtube RH			8079*)350-636-0	12*			ort Date: 2 art Qty: 1		Required Date: 12/01/2012 Required Qty: 1.00
^{AN3C6A}	Purchased	No		230	Each	226.0000	4 **	4 JU	
BOLT									17/02/61
			Location	Lo	oc Qty	Loc Code			
			FP001		1				
			111982		1				
			ST351		225				_
			111982		2				_
			116419		23				_
			116549		2				
			116704		12				_
			117619		10				_
			117688 117872		1 5				_
	•		117872		13				_
			119449		100			XU	man.
			119749		57				_
NAS1149C0832R	Purchased	No		230	Each	320.0000	1	1	
NAS1149C083	2R						**	M	12/02/01
			Location	Lo	c Oty	Loc Code			
			ST297		320				
			114915		320				_
D3536-25	Manufactured	No		230	Each	19.0000	1	1	_
D3536-25							**	Il	12/07/01
Guinet			Location	<u>Lo</u>	c Oty	Loc Code			

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FP002

75039

Dail Ac	ospace	Liu							•
W/O:			WC	RK ORDER CHANG	ES	,			•
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Work Order ID: 78079		*7	8079*						
Parent Item: D350-636-012			350-636-	012 *					
Parent Item Name: Skidtube RH					Start Date: 28/12/2011 Start Qty: 1.00			Required Date: 12/01/2012 Required Qty: 1.00	
D3794-3	Manufactured	No		230	Each	13.0000	1	1	
D3794-3 ×							**	B789	395Cx(1 11 12 12 102 10
			Location	<u>L</u> .	oc Qty	Loc Code			
			FP002		13				
			74530		2				-
			74596		11				_
AN3C5A	Purchased	No		230	Each	898.0000	34	34	
AN3C5A							**	1.1	2/02/01
			Location	Lo	oc Qty	Loc Code			
			FP001		7				_
			115835		7				-
			ST350		891				
			116419		28				
			117343		17				
			117764		49				
			117872		2				
			119127		500			x34	
	_		119749		295				
D3537-1	Manufactured	No		230	Each	26.0000	3	3	,
D3537-1							**	B7756	00 (x3) H wozlo
			Location	<u>Lo</u>	c Qty	Loc Code			
			FP002		26				
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			74867		21				

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Required Date: 12/01/2012

Required Qty: 1.00

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Work Order ID: 78079 *78079* D350-636-012 *D350-636-012* Parent Item: Parent Item Name: Skidtube RH Start Date: 28/12/2011 Start Qty: 1.00 230 Each 17.0000 D3535-25 Manufactured No M Izlozlo1 *D3535-25* Wearshoe Loc Qty Loc Code Location FP001 17 62233 74592 4 75040 12

D3492-3

D3492-3

Location	Loc	<u>Oty</u>	Loc Code			
FP002		29				
74447		17				
74871		12				
	230	Each	0.0000	38	38	

Each

*AN960C101 * 🗡

D3488-042 Blade Fitting Assembly, RH

washer

AN960C10L

D3488-042

Manufactured

Manufactured

Purchased

No

No

No

230

230

Each

14.0000

29.0000

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1 1 13736 (x38) M 12/02/01
1 1 1 12/02/01

1377 039 (x8) th alozon

Loc Qty Loc Code Location FP002 14 62003 69904

> 71883 75068

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Page 8

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DATE	STEP	PRO	PROCEDURE CHANGE					Approval Chief Eng / Prod Mgr	Approval QC Inspector
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			J. J	Chief Eng					
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Work Order ID: 78079 *78079* Parent Item: D350-636-012 *D350-636-012* Parent Item Name: Skidtube RH Start Date: 28/12/2011 **Required Date: 12/01/2012** Start Qty: 1.00 Required Qty: 1.00 ALS4-1032-225 Purchased No 230 Each 1,132,000 Ju izlordoi *ALS4-1032-225* Location Loc Otv Loc Code ST281 1132 108696 199 110768 62 x38 803 118386 118966 68 D3492-1 Manufactured 230 Each 110.0000 nloz)01 *D3492-1* ** Location Loc Qty Loc Code FP002 110 69531 8 74444 2 76235 100 D3793-1 230 Manufactured No Each 10.0000 B77029 (x1) 11 1202/01 *D3793-1* ** Wearshoe Location Loc Qty Loc Code FP001 10 75038 10

W/O:			W	ORK ORDER CHANG	ES				٠,
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Loc Qty

89

88

Loc Code

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69529 76142

FP001

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DATE	STEP	Description of NC		Corrective Action Section		Verific		Approval	Approval
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Picklist Print December-28-11 3:25:28 PM									Page 11
Work Order ID: 78079 Parent Item: D350-636-012 Parent Item Name: Skidtube RH		*7807 *D350	9*)-636 - (12*			tart Date: Start Qty:	28/12/2011 1.00	Required Date: 12/01/2012 Required Qty: 1.00
AN6C44A BOLT	Purchased	No		230	Each	35.0000	4 **	4 11/046	5 (x4) M 12/02/101
		<u>Locat</u> FG ST343	103964	<u>Lo</u>	2 2 33 3 30	<u>Loc Code</u>			-7
D3532-1 *D3532-1* Spacer	Manufactured	No		250	Each	22.0000	2 **	2	
		Locati ST065		<u>Lo</u>	22 22	<u>Loc Code</u>		74850	
MS21083C8 *MS21083C8*	Purchased	No		250	Each	42.0000	2 **	/200	142 60/12/2/2
		<u>Locati</u> FP002 ST303	115884 115884 118077 118614 119309 119436 119638	<u>Lo</u> .	1 1 41 0 1 7 2 25 6	Loc Code			

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Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	4:	Date:	
	Re	solution:	Disposition	!:	QA: N/C Closed: Date:				
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NCR	1)			
DATE	STEP	Description of NC		Corrective Action Section			ation		Approval
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Work Order ID: 78079

D350-636-012 Parent Item:

Parent Item Name: Skidtube RH

78079

D350-636-012

Start Date: 28/12/2011

Required Date: 12/01/2012

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0863J

Purchased

Manufactured

No

250

Each

Loc Qty

Loc Qty

161

61

100

Each

161.0000

Loc Code

118078

≶*NAS1149D0863.I*

D3493-1

AN8C21A

Location ST298

118078 119307

250

250

17.0000

Loc Code

**

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Purchased

No

Location

ST062

70697 76237

2 15 Each

17

31.0000

Location Loc Qty Loc Code ŠT343 31 118758 5 119530 26

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W/O:			W	ORK ORDER CHANG	ES				
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Part No		PAR #:							
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DATE	STEP	Description of NC Section A	Initial	Corrective Action Section Action Description	on B	Verific Secti		Approval Chief Eng	Approval QC Inspector
			Chief Eng	Chief Eng	Date				
						_			

QTY -041 QTY -042 QTY QTY -043 -044 PART NUMBER DESCRIPTION D2750-041 350 SKIDTUBE ASSEMBLY, LH Х 350 SKIDTUBE ASSEMBLY, RH X D2750-042 D2750-043 350 SKIDTUBE ASSEMBLY, LH X D2750-044 350 SKIDTUBE ASSEMBLY, RH D2739 WEB D2743 SPACER 8 8 8 D2744 D2745 CAP 1 1 8 BUSHING 8 D2750-1 SKIDTUBE WELDMENT, LH 1 SKIDTUBE WELDMENT, RH D2750-2 SKIDTUBE WELDMENT, LH D2750-3 D2750-4 SKIDTUBE WELDMENT, RH D3488-041 BLADE FITTING, LH D3488-042 BLADE FITTING, RH SPACER 4 D3490-1 4 4 D3490-3 SPACER D3490-5 4 4 SPACER 8 D3492-041 PLUG ASSEMBLY 8 PLUG ASSEMBLY 8 8 D3492-043 D3492-045 PLUG ASSEMBLY 1 1 D3535-25 WEARSHOE 1 1 1 D3536-25 GASKET 3 3 3 D3537-1 WEARPAD WASHER 8 8 D3631-1 8 8 D3791-1 WEARPLATE WEARSHOE 1 D3793-1 1 1 1 D3793-3 WEARSHOE Æ 1 1 D3794-1 GASKET 1 D3794-3 GASKET 1 INSERT (OR ALS7-1032-225, AKS4-1032-225, AELS-1032-225) 38 38 ALS4-1032-225 34 34 34 34 AN3C5A BOLT 4 4 4 AN3C6A BOLT

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE.
WORK ORDER
NO. 78079 MLJ
11112 [28

С

	NEASON. REF. NOR	ADD NOTE 12 AND 13 (ZN A6-1); REASON: REF. NCR 08-043						
E	ADD RUBBER GASK REMOVE OTY (38) N	ESS STEEL WEARPLATES; ETS: CHANGE INSERTS; ADD D3631-1; IAS1515H3L; REMOVE QTY (10) VE D2741, QTY (2) AN960C816; 231883C8	СВ	07.05.17				
D		ACERS FOR APICAL FLOATS:	PH	06.01.05				
С	ADD D2750-3/D2750-	4; INCORPORATE D2738 AND D2740	CP	98.11.18				
В	CHANGE MS24694-S	293 TO AN8-16A	СР	98.09.01				
	NEW ISSUE		DS	98.04.16				
Α	INEM ISSUE		DQ	90.04.16				

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H	DART AEROSE PORT HA	PACE USA	, INC.
1	DRAWING NO.		REV. F
\int_{0}^{∞}	D2750		SHEET 1 OF 11

SCALE SKIDTUBE ASSEMBLY

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GENERAL NOTES:

MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).

AN6C44A

AN8C35A

MS21043-6

1 AN960C816L

1 M\$21083C8

Æ-H

PINISH:
ACID ETCH, ALONDE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.
POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).
TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
UNITS: INCHES UNLESS OTHERWISE NOTED
UNITS: INCHES UNLESS OTHERWISE NOTED

BOLT

BOLT

NUT

NUT

WASHER

WASHER

WASHER

4

1

4

4 4 4 NAS1515H3L

1

1 1

4

1

1 38 38 38 AN960C10I

BREAK SHARP EDGES: N/A

IDENTIFICATION: N/A

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WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS

WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS
WELD PER DART QSI 004
INSTALL ALS4-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES (Ø0.297) FOR WEARSHOE INSERTS
FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
MINIMUM YIELD TENSILE STRENGTH = 35 KSI
MINIMUM YIELD TENSILE STRENGTH = 38 KSI
SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS.
COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF
POWDER COATING WITH MEK DEGREASER.
SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL

SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

NTS

W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHAI	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Categ	ory:	NCR: Yes	No DQ	A:	Date: _	
	Re	solution:	Disposition	:	QA: N/C	Closed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC		Corrective Action Section	on B Sign		cation		Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Date		ion C	Chief Eng	QC Inspector

D2750-041 350 SKIDTUBE ASSEMBLY, LH

D2750-042 350 SKIDTUBE ASSEMBLY, RH



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DESIGN	_P#	DART AEROSPACE USA, INC.					
DRAWN	H	PORT HADLOCK, WA					
CHECKED	A.	DRAWING NO.	REV. F				
MFG. APPR.	M.	D2750 sı	HEET 2 OF 11				
APPROVED	M	TITLE	SCALE				
DE APPR.	4	350 SKIDTUBE ASSEMBLY	NTS				
DATE 08.0	7.16	COPYRIGHT © 1998 BY DART AEROSPACE USA, INC. THIS COCUMENT IS PROVIDE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COORDINACTRE TO ANY OTHER PERSON WITHOUT					

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Part No	•	PAR #:	Fault Cate	gory:	NCR	: Yes I	lo DQ	4:	Date:	
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MFG. APPR.		D2750 SHEET 3 OF 11							
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DATE 08.07.16		COPYRIGHT © 1998 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND COMPRENTIAL AND IS EXPPLIED ON THE EXPRESS CONCIDENT THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMPLIANCE TO ANY OTHER PERSON WITHOUT WHITTEN PERSONS THAT DAYS AND A TRANSPACE USA INC.							

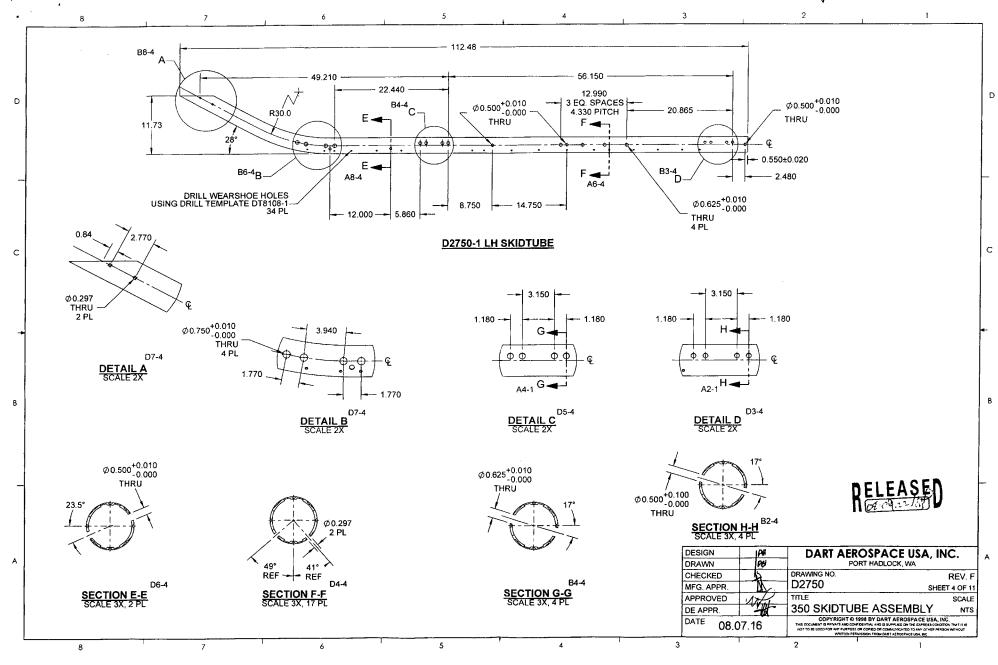
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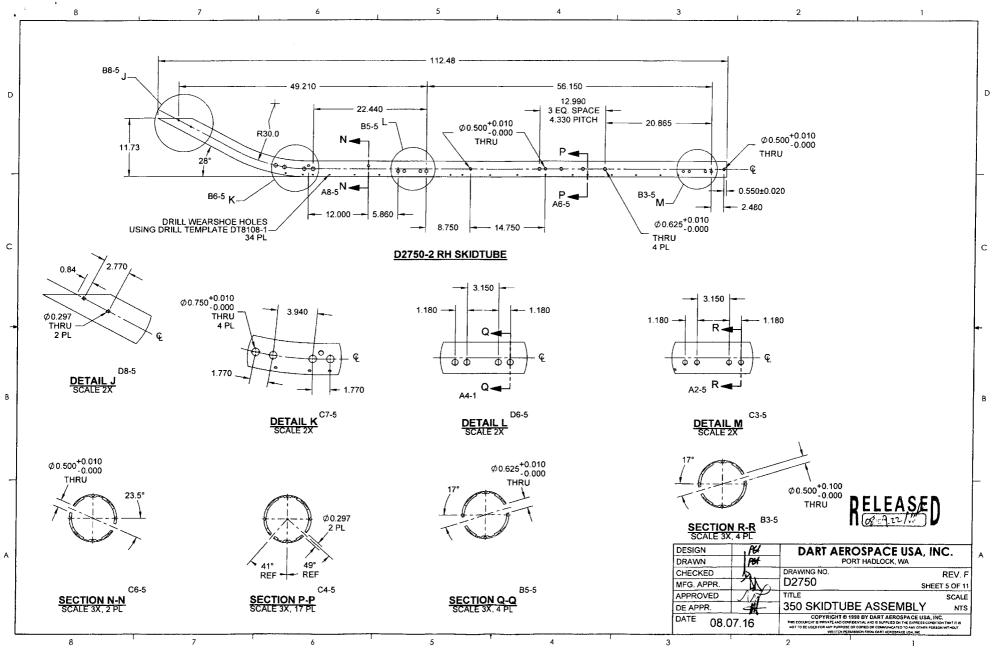
D2750-044 350 SKIDTUBE ASSEMBLY, RH

D2750-043 350 SKIDTUBE ASSEMBLY, LH

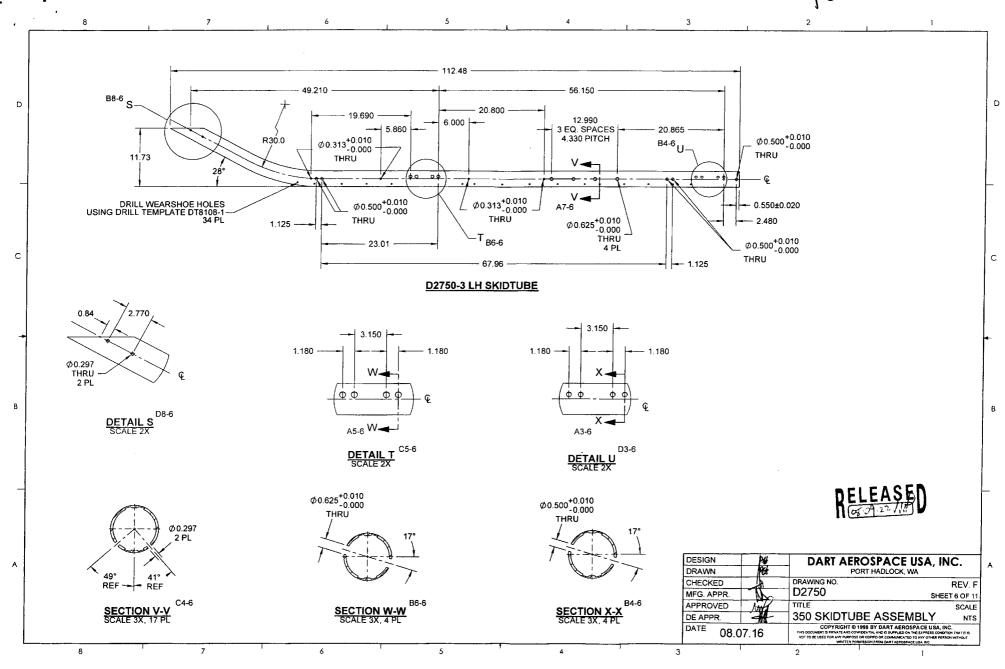
									
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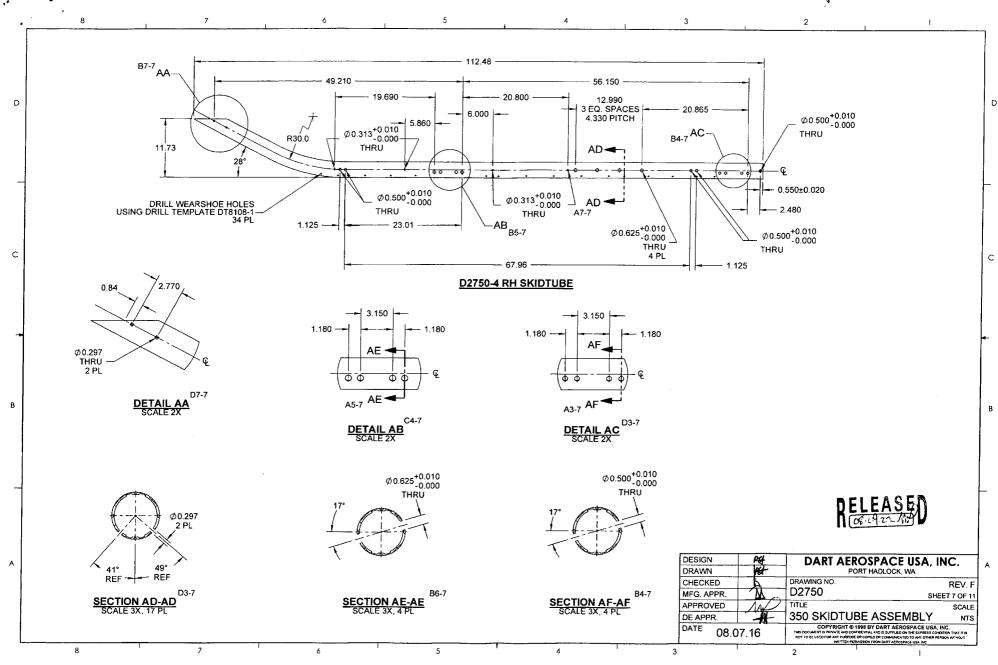
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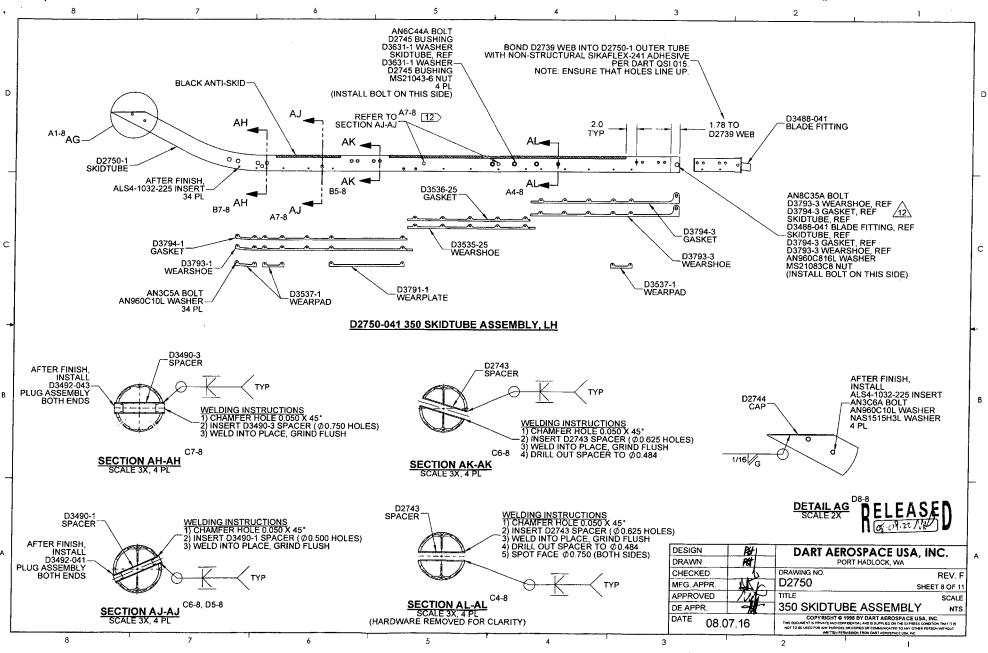
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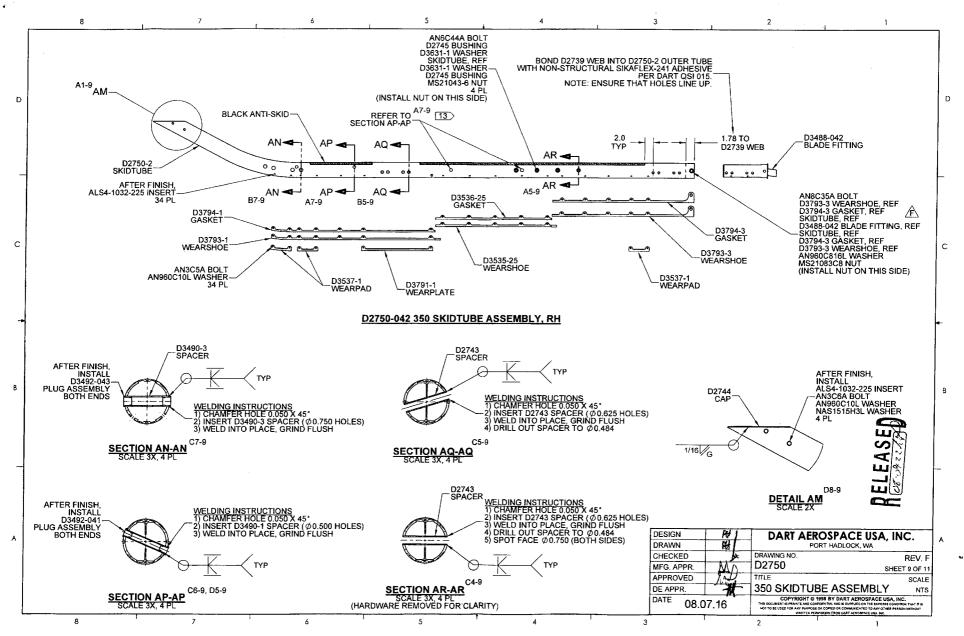
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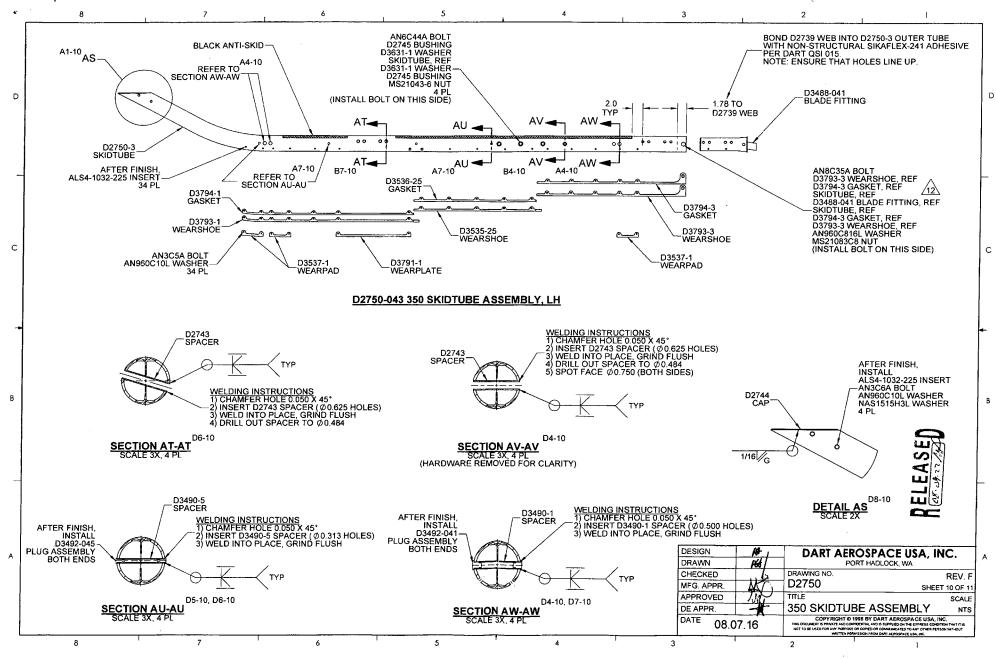
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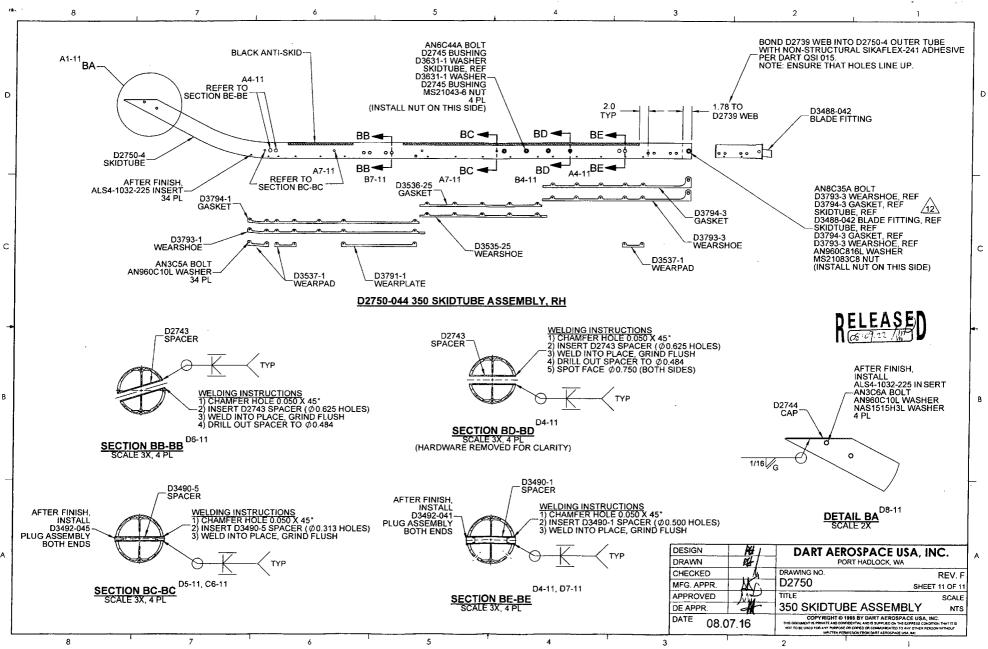


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NO. 279

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Dat Clar Elle off Job number: 77362 Part number: 1 350 636 0/2 Description: 350 Skedter be Welding Process: Tig[X] Mig[] Base materiel: Current: AC[X] DC[]			
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		TEST	REQUIREMENTS AND RESULTS
·	•		
**************************************	C:11 1		
Visual:	pass fail]		
Penetration:	pass[fail[]		
UNACCEPTABLE	·		
OTTACOLI ITALIA			
Cracks:	pass[V fail]		
Undercut:	pass[V fail]		
Pin holes:	pass[fail[]		
Overlap (cold lap)	pass[fail[]		
Porosity (surface):	pass[X fail]		
Coloration:	pass[X] fail[]		
7 /	1 1/4 2 3		
Qualifier Sat Lill	Date of Test Coupon // 12.22		
Sal collin	D. ST. 162 22		
Welder Speckage Stell	Date of Test Coupon 11-12-22		
U			

The above named individual is qualified in accordance with AWS D17.1.2001 to weld